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PATENT



Preliminary Classification:

Proposed Class:

Subclass:

NOTE: "All applicants are requested to include a preliminary classification on newly filed patent applications. The preliminary classification, preferably class and subclass designations, should be identified in the upper right-hand comer of the letter of transmittal accompanying the application papers, for example 'Proposed Class 2, subclass 129.' " M.P.E.P. § 601, 7th ed.

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**Box Patent Application Assistant Commissioner for Patents** Washington, D.C. 20231

### NEW APPLICATION TRANSMITTAL

Transmitted herewith for filing is the patent application of

Inventor(s): Jeff Schulz

WARNING: 37 C.F.R. § 1.41(a)(1) points out:

"(a) A patent is applied for in the name or names of the actual inventor or inventors.

"(1) The inventorship of a nonprovisional application is that inventorship set forth in the oath or declaration as prescribed by § 1.63, except as provided for in § 1.53(d)(4) and § 1.63(d). If an oath or declaration as prescribed by § 1.63 is not filed during the pendency of a nonprovisional application, the inventorship is that inventorship set forth in the application papers filed pursuant to § 1.53(b), unless a petition under this paragraph accompanied by the fee set forth in § 1.17(i) is filed supplying or changing the name or names of the inventor or inventors."

For (title):

RECEIVER DECODING ALGORITHM TO ALLOW HITLESS N+1

REDUNDANCY IN A SWITCH

#### CERTIFICATION UNDER 37 C.F.R. § 1.10\*

(Express Mail label number is mandatory.) (Express Mail certification is optional.)

I hereby certify that this New Application Transmittal and the documents referred to as attached therein are being deposited with the United States Postal Service on this date <u>June 30, 2000</u>, in an envelope as "Express Mail Post Office to Addressee," mailing Label Number EL396485947US dressed to the: Assistant Commissioner for Patents, Washington, D.C. 20231.

Tracey L. Milka

(type or print name of person mailing paper)

Signature of person mailing paper

WARNING: Certificate of mailing (first class) or facsimile transmission procedures of 37 C.F.R. § 1.8 cannot be used to obtain a date of mailing or transmission for this correspondence.

\*WARNING: Each paper or fee filed by "Express Mail" must have the number of the "Express Mail" mailing label placed thereon prior to mailing. 37 C.F.R. § 1.10(b).

"Since the filing of correspondence under § 1.10 without the Express Mail mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will not be granted on petition." Notice of Oct. 24, 1996, 60 Fed. Reg. 56,439, at 56,442.

(New Application Transmittal [4-1]-page 1 of 11)

# 1. Type of Application

This new application is for a(n)

(check one applicable item below)

X	]	Original (nonprovisional)
	]	Design
		☐ Plant
WARNII	NG:	<b>Do not</b> use this transmittal for a completion in the U.S. of an International Application under 35 U.S.C. § 371(c)(4), unless the International Application is being filed as a divisional, continuation or continuation-in-part application.
WARNII	NG:	Do not use this transmittal for the filing of a provisional application.
NOTE:	TR	nne of the following 3 items apply, then complete and attach ADDED PAGES FOR NEW APPLICATION IANSMITTAL WHERE BENEFIT OF A PRIOR U.S. APPLICATION CLAIMED and a NOTIFICATION PARENT APPLICATION OF THE FILING OF THIS CONTINUATION APPLICATION.
	3	Divisional.
	]	Continuation.
	]	Continuation-in-part (C-I-P).

### 2. Benefit of Prior U.S. Application(s) (35 U.S.C. §§ 119(e), 120, or 121)

NOTE: A nonprovisional application may claim an invention disclosed in one or more prior filed copending nonprovisional applications or copending international applications designating the United States of America. In order for a nonprovisional application to claim the benefit of a prior filed copending nonprovisional application or copending international application designating the United States of America, each prior application must name as an inventor at least one inventor named in the later filed nonprovisional application and disclose the named inventor's invention claimed in at least one claim of the later filed nonprovisional application in the manner provided by the first paragraph of 35 U.S.C. § 112. Each prior application must also be:

- (i) An international application entitled to a filing date in accordance with PCT Article 11 and designating the United States of America; or
  - (ii) Complete as set forth in § 1.51(b); or
- (iii) Entitled to a filing date as set forth in § 1.53(b) or § 1.53(d) and include the basic filing fee set forth in § 1.16; or
- (iv) Entitled to a filing date as set forth in § 1.53(b) and have paid therein the processing and retention fee set forth in § 1.21(l) within the time period set forth in § 1.53(f).

37 C.F.R. § 1.78(a)(1).

NOTE: If the new application being transmitted is a divisional, continuation or a continuation-in-part of a parent case, or where the parent case is an International Application which designated the U.S., or benefit of a prior provisional application is claimed, then check the following item and complete and attach ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.

WARNING: If an application claims the benefit of the filing date of an earlier filed application under 35 U.S.C. §§ 120, 121 or 365(c), the 20-year term of that application will be based upon the filing date of the earliest U.S. application that the application makes reference to under 35 U.S.C. §§ 120, 121 or 365(c). (35 U.S.C. § 154(a)(2) does not take into account, for the determination of the patent term, any application on which priority is claimed under 35 U.S.C. §§ 119, 365(a) or 365(b).) For a c-i-p application, applicant should review whether any claim in the patent that will issue is supported by an earlier application and, if not, the applicant should consider canceling the reference to the earlier filed application. The term of a patent is not based on a claim-by-claim approach. See Notice of April 14, 1995, 60 Fed. Reg. 20,195, at 20,205.

(New Application Transmittal [4-1]—page 2 of 11)

WARNIN	r F	When the last day pendency of a provisional application falls on a Say Sunday, or Federal holiday within the strict of Columbia, any nonprovisional application seliming benefit of the provisional application must be filed prior to the Saturday, Sunday, or Federal holiday within the District of Columbia. See 37 C.F.R. § 1.78(a)(3).
	tio	ne new application being transmitted claims the benefit of prior U.S. application(s). Enclosed are ADDED PAGES FOR NEW APPLICATION TRANSMITTAL HERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.
3. Pape	ers E	Enclosed
(Do	esigr	ed for filing date under 37 C.F.R. § 1.53(b) (Regular) or 37 C.F.R. § 1.153 a) Application
F	Page	s of specification
4 F	age	s of claims
<u>15</u> e	Shee	ts of drawing
WARNIN	fi s. d tf F	ONOT submit original drawings. A high quality copy of the drawings should be supplied when ding a patent application. The drawings that are submitted to the Office must be on strong, white, mooth, and non-shiny paper and meet the standards according to § 1.84. If corrections to the trawings are necessary, they should be made to the original drawing and a high-quality copy of the corrected original drawing then submitted to the Office. Only one copy is required or desired for comments on proposed then-new 37 C.F.R. § 1.84, see Notice of March 9, 1988 (1990 O.G. 7-62).
ti c	nvente he Off on the	ifying indicia, if provided, should include the application number or the title of the invention, or's name, docket number (if any), and the name and telephone number of a person to call if fice is unable to match the drawings to the proper application. This information should be placed back of each sheet of drawing a minimum distance of 1.5 cm. (5/8 inch) down from the top page" 37 C.F.R. § 1.84(c)).
		(complete the following, if applicable)
	"PI	e enclosed drawing(s) are photograph(s), and there is also attached a ETITION TO ACCEPT PHOTOGRAPH(S) AS DRAWING(S)." 37 C.F.R. 1.84(b).
	for	mal
X	info	ormal
B. Oth	er P	Papers Enclosed
P	ages	s of declaration and power of attorney
	ages	s of abstract
0	ther	
Additi	ional	papers enclosed
	Am	endment to claims
-		Cancel in this applications claims before calculating the filing fee. (At least one original independent claim must be retained for filing purposes.)
		Add the claims shown on the attached amendment. (Claims added have been numbered consecutively following the highest numbered original claims.)
	Pre	liminary Amendment
	Info	rmation Disclosure Statement (37 C.F.R. § 1.98)
		m PTO-1449 (PTO/SB/08A and 08B)
	Cita	ations

(New Application Transmittal [4-1]—page 3 of 11)

	Dec	aration of Societal Deposit
	pert amir	nission of "Sequence Listing," computer readable copy and/or amendment ining thereto for biotechnology invention containing nucleotide and/or a acid sequence.
	] Auth	prization of Attomey(s) to Accept and Follow Instructions from Representa-
	] Spe	ial Comments
	) Oth	г
5. Dec	laratio	or oath (including power of attorney)
	the prior by all or applicate the sign by a state being findeclarate person executes	executed declaration is not required in a continuation or divisional application provided that nonprovisional application contained a declaration as required, the application being filed is fewer than all the inventors named in the prior application, there is no new matter in the on being filed, and a copy of the executed declaration filed in the prior application (showing ture or an indication thereon that it was signed) is submitted. The copy must be accompanied ement requesting deletion of the names of person(s) who are not inventors of the application and. If the declaration in the prior application was filed under § 1.47, then a copy of that on must be filed accompanied by a copy of the decision granting § 1.47 status or, if a nonsigning ander § 1.47 has subsequently joined in a prior application, then a copy of the subsequently it declaration must be filed. See 37 C.F.R. §§ 1.63(d)(1)–(3).
NOTE:	is direct abbrevi country C.F.R.	ation filed to complete an application must be executed, identify the specification to which it id, identify each inventor by full name including family name and at least one given name, without tion together with any other given name or initial, and the residence, post office address and or citizenship of each inventor, and state whether the inventor is a sole or joint inventor. 37 1.63(a)(1)–(4).
NOTE:	as pres as pres is that ii this pai	entorship of a nonprovisional application is that inventorship set forth in the oath or declaration ribed by § 1.62, except as provided for in § 1.53(d)(4) and § 1.63(d). If an oath or declaration ribed by § 1.63 is not filed during the pendency of a nonprovisional application, the inventorship ventorship set forth in the application papers filed pursuant to § 1.53(b), unless a petition under agraph accompanied by the fee set forth in § 1.17(i) is filed supplying or changing the name is of the inventor or inventors." 37 C.F.R. § 1.41(a)(1).
5	Enc	osed
	Exe	cuted by
		(check all applicable boxes)
	X	inventor(s).
		legal representative of inventor(s). 37 C.F.R. §§ 1.42 or 1.43.
		joint inventor or person showing a proprietary interest on behalf of inventor who refused to sign or cannot be reached.
		☐ This is the petition required by 37 C.F.R. § 1.47 and the statement required by 37 C.F.R. § 1.47 is also attached. See item 13 below for fee.
[	] No	Enclosed.
NOTE:	the U.S	the filing is a completion in the U.S. of an International Application or where the completion of application contains subject matter in addition to the International Application, the application treated as a continuation or continuation-in-part, as the case may be, utilizing ADDED PAGE WAPPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION CLAIMED.
		Application is made by a person authorized under 37 C.F.R. § 1.41(c) on behalf of all the above named inventor(s).
		(New Application Transmittal [4-1]—page 4 of 11)

(The declaration or oak along with the surcharge required by 37 c.F.R. § 1.16(e) can be filed subsequently).	:)
Showing that the filing is authorized. (not required unless called into question. 37 C.F.R. § 1.41(d)	))
6. Inventorship Statement	
WARNING: If the named inventors are each not the inventors of all the claims an explanation, includin ownership of the various claims at the time the last claimed invention was made, shou submitted.	g the Id be
The inventorship for all the claims in this application are:	
☐ The same.	
or	
Not the same. An explanation, including the ownership of the various claim the time the last claimed invention was made,	s at
☐ is submitted.	
☐ will be submitted.	
7. Language	
NOTE: An application including a signed oath or declaration may be filed in a language other than Eng An English translation of the non-English language application and the processing fee of \$13 required by 37 C.F.R. § 1.17(k) is required to be filed with the application, or within such time as be set by the Office. 37 C.F.R. § 1.52(d).	0.00
🗵 English	
☐ Non-English	
☐ The attached translation includes a statement that the translation is acrate. 37 C.F.R. § 1.52(d).	cu-
8. Assignment	
☑ An assignment of the invention to FORE Systems, Inc.	
is attached. A separate ☼ "COVER SHEET FOR ASSIGNMENT (DOOMENT) ACCOMPANYING NEW PATENT APPLICATION" or ☐ FORM FINE 1595 is also attached.	
☐ will follow.	
NOTE: "If an assignment is submitted with a new application, send two separate letters-one for the application and one for the assignment." Notice of May 4, 1990 (1114 O.G. 77, 78)	ition

and one for the assignment." Notice of May 4, 1990 (1114 O.G. 77-78).

WARNING: A newly executed "CERTIFICATE UNDER 37 C.F.R. § 3.73(b)" must be filed when a continuation-in-part application is filed by an assignee. Notice of April 30, 1993, 1150 O.G. 62-64.

(New Application Transmittal [4-1]—page 5 of 11)

Certified Copy	

9.

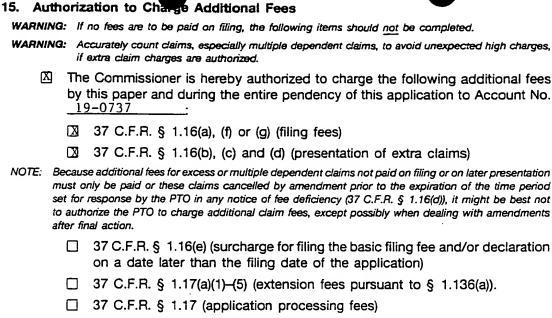
## Certified copy(ies) of application(s)

Country	Appln. No.		Filed
Country	Appln. No.		Filed
Country	Appln. No.		Filed
from which priority is claimed			
☐ is (are) attached.			
☐ will follow.		-	
NOTE: The foreign application for declaration. 37 C.F.R. § 1.	ming the basis for the claim f .55(a) and 1.63.	or priority must b	pe referred to in the oath or
U.S. application or Internat § 120 is itself entitled to property of the PAGES FOR NEW APPLICATION OF THE PROPERTY OF THE PR	n priority for which the applicational Application from which the riority from a prior foreign applicaTION TRANSMITTAL WHER	his application cla ication, then com	aims benefit under 35 U.S.C. plete item 18 on the ADDED
<ul><li>10. Fee Calculation (37 C.F</li><li>A.   Regular application</li></ul>			
· · · · · · · · · · · · · · · · · · ·	CLAIMS AS FILED	)	
Number filed	Number Extra	Rate	Basic Fee 37 C.F.R. § 1.16(a) \$690.00
Total Claims (37 C.F.R. § 1.16(c))  16 -	20 = 0 ×	\$ 18.00	0.00
Independent Claims (37 C.F.R.	3 = 0 ×	\$ 78.00	0.00
Multiple dependent claim(s), if any (37 C.F.R. § 1.16(d))	+	\$260.00	
	elling extra claims is ending multiple-dependencie		1.
	ns is not being paid at t		
NOTE: If the fees for extra claims a	are not paid on filing they must the time period set for respons	be paid or the clai	ms cancelled by amendment, and Trademark Office in any
	Filing Fee Calculation		\$ 690.00
B. Design application (\$310.00—37 C.F.I			
	Filing Fee Calculation		\$

(New Application Transmittal [4-1]—page 6 of 11)

C.		Plant application (\$480.00—37 C.F	P & 1 16(a))	
		( <del>0-00.0001 C.1</del>	· · · · · · · · · · · · · · · · · · ·	æ
44	Sma	l Estitu Statomon	Filing fee calculation	\$
11.	_	Statement Statement		W
	П	is (are) attached.	this is a filing by a small er	itity under 37 C.F.R. § 1.9 and 1.27
WA	RNING	the status is available affect any other application a continued prosecute a new determination application. A nonproper 365(c) of a prior application or in the reference to the statement in the prior desired. The payment	e and desired. Status as a small olication or patent, including ap upon the application or patent in tion under § 1.53 as a continuation tion application under § 1.53(d)), as to continued entitlement to smootisional application claiming be- colication, or a reissue application patent if the nonprovisional application or application or in the patent and	shed in each application or patent in which entity in one application or patent does not plications or patents which are directly of which the status has been established. The minimum or continuation in part (including or the filing of a reissue application requires hall entity status for the continuing or reissue mefit under 35 U.S.C. § 119(e), 120, 121, on may rely on a statement filed in the priorication or the reissue application includes a or in the patent or includes a copy of the distatus as a small entity is still proper and the filing fee will be treated as such a reference of the status as a small entity is still proper and the patent of the status as a reference of the status as a small entity is still proper and the status as a small entity is still proper and the status as a small entity is still proper and the status as a small entity is still proper and the status as a small entity is still proper and the status as a small entity is still proper and the status as a small entity is still proper and the status as a small entity is still proper and the status as a small entity is still proper and the status as a small entity is still proper and the status as a small entity is still proper and the status as a small entity is still proper and the status as a small entity is still proper and the status as a small entity is still proper and the status as a small entity is still proper and the status as a small entity is still proper and the status as a small entity is still proper and the status as a small entity as a such a reference as a small entity is still proper and the status as a small entity as a such a reference as a small entity as a small
WA	RNING	: "Small entity status n	nust not be established when the partification	person or persons signing the statement n." M.P.E.P., § 509.03, 6th ed., rev. 2, July
		(co	mplete the following, if an	oplicable)
		Status as a small	entity was claimed in price	or application
		/	, filed on	, from which benefit
		is being claimed f	or this application under:	
			119(e), 120, 121, 365(c),	
		and which status	s as a small entity is still	proper and desired.
		☐ A copy of th	e statement in the prior a	pplication is included.
		Filing Fee Cal	culation (50% of A, B or C	above)
		•	\$	
NOT	are		paid will be refunded if small entit of the date of timely payment	iy status is established and a refund request of a full fee. The two-month period is not
12.	Requ	est for internation	nal-Type Search (37 C.F.	R. § 1.104(d))
			(complete, if applicable	e)
			international-type search remination on the merits tal	eport for this application at the time kes place.

13. Fe	ee P	aym	ent Beil Made at This Time			
(	1 [	Vot	Enclosed			
	C		No filing fee is to be paid at this time. (This and the surcharge required by 37 C.F.R. § subsequently.)	1.16(e)	) can be p	aid
(	X) E	Encl	osed			
		X	Filing fee	\$	690.00	
		☒	Recording assignment (\$40.00; 37 C.F.R. § 1.21(h)) (See attached "COVER SHEET FOR ASSIGNMENT ACCOMPANYING NEW APPLICATION".)	\$	40.00	
			Petition fee for filing by other than all the inventors or person on behalf of the inventor where inventor refused to sign or cannot be reached (\$130.00; 37 C.F.R. §§ 1.47 and 1.17(i))	\$		
			For processing an application with a specification in a non-English language (\$130.00; 37 C.F.R. §§ 1.52(d) and 1.17(k))	\$		
			Processing and retention fee (\$130.00; 37 C.F.R. §§ 1.53(d) and 1.21(l))	\$		
			Fee for international-type search report (\$40.00; 37 C.F.R. § 1.21(e))	\$		
NOTE:	failií 37 ( eith	ng to C.F.F er th	R. § 1.21(I) establishes a fee for processing and retaining any application pursuant to 37 C.F.R. § 1.53(f) and this R. §§ 1.53 and 1.78(a)(1), indicate that in order to obtain the benefice basic filing fee must be paid, or the processing and retention fee year from notification under § 53(f).	s, as well ît of a pric	as the change or U.S. applica	es to ition,
			Total fees enclosed	\$	730.00	
14. M			f Payment of Fees			
[	X (	Che	ck in the amount of \$_690.00 & 40.00			
(	5	\$	rge Account No.	in the	e amount	of
			uplicate of this transmittal is attached.			
NOTE:		s sho	ould be itemized in such a manner that it is clear for which purpose ).	the fees a	are paid. 37 C	.F.R.



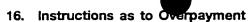
NOTE: ". . . A written request may be submitted in an application that is an authorization to treat any concurrent or future reply, requiring a petition for an extension of time under this paragraph for its timely submission, as incorporating a petition for extension of time for the appropriate length of time. An authorization to charge all required fees, fees under § 1.17, or all required extension of time fees will be treated as a constructive petition for an extension of time in any concurrent or future reply requiring a petition for an extension of time under this paragraph for its timely submission. Submission of the fee set forth in § 1.17(a) will also be treated as a constructive petition for an extension of time in any concurrent reply requiring a petition for an extension of time under this paragraph for its timely submission." 37 C.F.R. § 1.136(a)(3).

☐ 37 C.F.R. § 1.18 (issue fee at or before mailing of Notice of Allowance, pursuant to 37 C.F.R. § 1.311(b))

NOTE: Where an authorization to charge the issue fee to a deposit account has been filed before the mailing of a Notice of Allowance, the issue fee will be automatically charged to the deposit account at the time of mailing the notice of allowance. 37 C.F.R. § 1.311(b).

NOTE: 37 C.F.R. § 1.28(b) requires "Notification of any change in status resulting in loss of entitlement to small entity status must be filed in the application . . . prior to paying, or at the time of paying, . . . the issue fee. . . " From the wording of 37 C.F.R. § 1.28(b), (a) notification of change of status must be made even if the fee is paid as "other than a small entity" and (b) no notification is required if the change is to another small entity.

(New Application Transmittal [4-1]—page 9 of 11)



NOTE: ". . . Amounts of twenty-five dollars or less will not be returned unless specifically requested within a reasonable time, nor will the payer be notified of such amounts; amounts over twenty-five dollars may be returned by check or, if requested, by credit to a deposit account." 37 C.F.R. § 1.26(a).

X	Credit Account No	
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☐ Refund

Reg. No. 30,587

Tel. No. (412) 621-9222

Customer No.

SIGNATURE OF PRACTITIONER

Ansel M. Schwartz

(type or print name of attorney) One Sterling Plaza

201 N. Craig Street,

P.O. Address

Pittsburgh, PA 15213

(New Application Transmittal [4-1]—page 10 of 11)

	HILOH	poration by respective or added pages				
	(check the following item if the application in this transmittal claims the benefit of prior U.S. application(s) (including an international application entering the U.S. stage as a continuation, divisional or C-I-P application) and complete and attach the ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED)					
		Plus Added Pages for New Application Transmittal Where Benefit of Prior U.S. Application(s) Claimed				
		Number of pages added				
		Plus Added Pages for Papers Referred to in Item 4 Above				
		Number of pages added				
		Plus added pages deleting names of inventor(s) named in prior application(s) who is/are no longer inventor(s) of the subject matter claimed in this application.				
		Number of pages added				
	X	Plus "Assignment Cover Letter Accompanying New Application"  Number of pages added4				
	State	ment Where No Further Pages Added				
	(if no further pages form a part of this Transmittal, then end this Transmittal with this page and check the following item)					
		This transmittal ends with this page.				